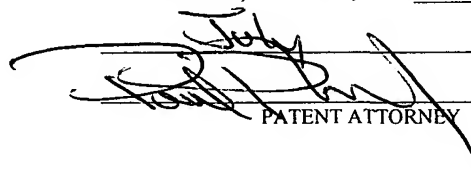


First Named Inventor	: Huazhou Lou et al.	Group Art Unit: Examiner:
Appln. No.	:	
Filed	: Herewith	
Title	: DYNAMIC MEASUREMENT OF HEAD MEDIA SPACING MODULATION	
Docket No.	: 169.12-0592	

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER IS BEING SENT BY EXPRESS MAIL,
TO THE ASSISTANT COMMISSIONER FOR PATENTS,
WASHINGTON, D.C. 20231, THIS 31 DAY OF

 , 2003.
PATENT ATTORNEY

Sir:

The enclosed PTO Form-1449 lists patents and publications submitted pursuant to 37 C.F.R. 1.97. Copies of the patents or publications are enclosed as necessary.

This application relies, under 35 U.S.C. 120, on the earlier filing date of prior Application No. , filed on . The following references, listed on the enclosed PTO Form 1449 were submitted to and/or cited by the Office in the prior application; therefore, under 37 C.F.R. 1.98(d), copies are not required to be provided herewith:

Submitted herewith is a copy (with English translation as appropriate) of an Official Search Report of the Patent Office in counterpart foreign Application No. filed .

The following foreign language documents and English language documents are believed to be equivalent or substantially equivalent:

FOREIGN LANGUAGE

ENGLISH LANGUAGE

TIME OF FILING

The Information Disclosure Statement is being filed:

1. X with the application or within three months of the filing date of a national application (other than a continued prosecution application under 37 C.F.R. 1.53(d)) or date of entry into the national stage of an international application or, to the best of the undersigned's knowledge, before the mailing date of a first Office action on the merits or a first office action after the filing of a request for continued examination under 37 C.F.R. 1.114, whichever event occurs last. In accordance with 37 C.F.R.

1.97(b), no certification or fee is required.

2. ☐ after the time period specified in paragraph 1 above, but, to the best of the undersigned's knowledge, before the mailing date of a final action under 37 C.F.R. 1.113 or notice of allowance under 37 C.F.R. 1.311, or an action that otherwise closes prosecution of the application. In accordance with 37 C.F.R. 1.97(c), submitted herewith is:

(check either A or B below)

- A. ☐ a statement as specified in 37 C.F.R. 1.97(e), no fee is required.
B. ☐ the fee set forth in 37 C.F.R. 1.17(p) for submission of an Information Disclosure Statement under 37 C.F.R. 1.97(c).

3. ☐ after the mailing date of either a final action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first, but on or before payment of the issue fee. Applicant petitions for consideration of this Information Disclosure Statement pursuant to 37 C.F.R. 1.97(d)(2). Applicant submits herewith:

- A. ☐ a statement as specified in 37 C.F.R. 1.97(e); and
B. ☐ the fee set forth in 37 C.F.R. 1.17(p).

Respectfully submitted,

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FORM PTO-1449	Atty. Docket No.: I69.12-0592	Application No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Huazhou Lou et al.	
	Filing Date: Herewith	Group Art:

U.S. PATENT DOCUMENTS

Examiner Initials	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents
AA	4,777,544	10-11-1988	Brown et al.
AB	5,130,866	07-14-1992	Klaassen et al.
AC	5,377,058	12-27-1994	Good et al.
AD	5,410,439	04-25-1995	Egbert et al.
AE	5,909,330	06-01-1999	Carlson et al.
AF	6,191,901 B1	02-20-2001	Carlson et al.
AG	6,249,393 B1	06-19-2001	Billings et al.
AH	6,268,976 B1	07-31-2001	Carlson et al.
AI	6,417,981 B1	07-09-2002	Smith
AJ	6,452,735	09-17-2002	Egan et al.
AK	6,459,539 B1	10-01-2002	Carlson et al.
AL	6,519,102 B1	02-11-2003	Smith et al.

FOREIGN PATENT DOCUMENTS

	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Translation Yes No

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	Atty. Docket No.: I69.12-0592	Application No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Huazhou Lou et al.	
	Filing Date: Herewith	Group Art:

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AM	R. L. Wallace, Jr., The Reproduction of Magnetically Recorded Signals, Pages 1145-1173
	AO	Klaas B. Klaassen, <i>Fellow</i> , IEEE, and Jack C. L. van Peppen, <i>Member</i> , IEEE Head-Medium Clearance and Lateral Track Registration of a Recording Head as Measured from the Readback Signal, January 2001 Pages 575-582
	AP	Bruce C. Schardt, Erhard Schreck, Richard Sonnenfeld, Quinn Haddock and John R. Haggis, Flying Height Measurement while Seeking in Hard Disk Drives, July 1998 Pages 1765-1767
	AQ	V. J. Novotny and M.-J. Hsiao, Sensitive Magnetic Readback Head-Disk Spacing Measurements in Recording Drives, July 1998, Pages 1762-1764
	AR	Robert Eaton and Michael Baldwinson, Imaging of Media Lubricant Spacing Contributions by Readback Signal Analysis, January 1997, Pages 974-977
	AS	Youping Deng, Hsiao-chu Tsai, and Brian J. Nixon, Drive-Level Flying Height Measurements and Altitude Effects, November 1994, Pages 4191-4193
	AT	Y. Ohtsubo, N. Kawashima and H. Marumo, Measurement Method for the Spacing Fluctuation of a Head Slider in a Magnetic Disk Drive, September 1987, Pages 3450-3452
	AU	W. K. Shi, L. Y. Zhu, and D. B. Bogy, Use of Readback Signal Modulation to Measure Head/Disk Spacing Variations in Magnetic Disk Files, January 1987, Pages 233-240

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.